

CLAIMS

1. A fastening pin for attaching fixtures to floors, walls, or similar objects, by insertion into a pre-drilled hole, comprising a shank and flexible protrusions attached to the shank, whereby the flexible protrusions have an external dimension being greater than a diameter of the pre-drilled hole into which the fastening pin will be inserted and the shank has a portion with the protrusions and a portion without protrusions, whereby the portion with the protrusions is homogenous characterised in that the protrusions (2) are tapered towards their tips and circumferentially distributed along the longitudinal axis of the shank and the protrusion axis of the symmetry is situated in the plane of the symmetry of the shank.
2. The fastening pin according to claim 1, characterised in that the protrusions (2) are inclined at a slight angle to a longitudinal axis of the fastening pin and facing towards its head.
3. The fastening pin according to claim 1, characterised in that the protrusions (2) are in the form of a narrow truncated pyramid with a rectangular base referred to as spade-shaped.
4. The fastening pin according to claim 1, characterised in that the protrusions (2) have a variable cross-section area.
5. The fastening pin according to claim 1, characterised in that the protrusions (2) have unequal height.
6. The fastening pin according to claim 5, characterised in that the protrusions (2) of a different height are attached to the shank at different points along the axis of a longitudinal axis of the fastening pin and around a cross-section at a particular point.
7. The fastening pin according to claim 5, characterised in that the height of the protrusions (2) differ along the pin's longitudinal axis.
8. The fastening pin according to claim 1, characterised in that protrusions (2) may be manufactured from a material different from a fastening pin's (1) core material.
9. The fastening pin according to claim 8, characterised in that the protrusions (2) are in the form of bars, preferably made of steel.
10. A fastening pin for attaching threshold cover strips to floors, walls, or similar objects, by insertion into a pre-drilled hole, comprising a shank, flexible protrusions

attached to the shank and a head located in a channel of the threshold cover strip, characterised in that the shank is provided with a flexing neck joint (6) located between the shank and the head (4).

11. The fastening pin according to claim 10, characterised in that flexing neck joint (6) has a constriction on part of the neck.

12. The fastening pin according to claim 11, characterised in that the narrowing of the cross-section may be in the form of a circumferential groove (9) on the neck (7).

13. The fastening pin according to claim 11, characterised in that the narrowing of the cross-section may be in the form of grooves (10), preferably radial and perpendicular to the pin's longitudinal axis.

14. The fastening pin according to claim 11, characterised in that grooves (10) may be formed at any chosen point on the neck.

15. The fastening pin according to claim 10, characterised in that the neck may be in the form of a bent flat bar (11) possibly with thinnings at the extremities of the bends to allow a spring effect at a specific point(10).

16. The fastening pin according to claim 10, characterised in that the joint (6) may be made of a material more elastic than the material constituting the core.

17. The fastening pin according to claim 10, characterised in that the joint (6) takes the form of a hinge.

18. A fastening pin for attaching fixtures to floors, walls, or similar objects, by insertion into a pre-drilled hole, comprising a shank, a head attached to an upper end of the shank and flexible protrusions attached to the shank, characterised in that the flexible protrusions (2) are spade-shaped and moulded round the shank for $\frac{2}{3}$ of a length of the shank from its lower end and to a part of the shank near the head (4) are attached splines fins (16) tapering towards the lower end of the shank.

19. The fastening pin according to claim 18, characterised in that the fins (16) are located symmetrically round the pin's longitudinal axis.

20. The fastening pin according to claim 18, characterised in that fins (16) have a slight tapering towards the inner pin end.

21. The fastening pin according to claim 18, characterised in that the shank is provided with a neck (6) located between the fins (16) and the head (4).